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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/600,524	06/23/2003	Ming-Dou Ker	0941-0759P	8633	
2292 7	590 08/25/2004		EXAMINER		
BIRCH STEV	WART KOLASCH &	ABRAHAM, FETSUM			
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER	
FALLS CHUR	CH, VA 22040-0747		2826		
			DATE MAILED: 08/25/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Astica Commence	10/600,524	KER ET AL.	·				
Office Action Summary	Examiner	Art Unit	لي				
	Fetsum Abraham	2826					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	e correspondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply of NO period for reply is specified above, the maximum statutory period versions after the reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS fr cause the application to become ABANDO	timely filed days will be considered timely om the mailing date of this co NED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	action is non-final.						
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	,						
4)⊠ Claim(s) 1-103 is/are pending in the application	٦.						
4a) Of the above claim(s) is/are withdraw	wn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>all</u> is/are rejected.	ਰੇ)⊠ Claim(s) <u>all</u> is/are rejected.						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>23 June 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Offi	ce Action or form PT	O-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119	(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list	of the certified copies not recei	ived.					
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Summa	ary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail	Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5)  Notice of Informa 6)  Other:	al Patent Application (PTC	<b>9-152</b> )				
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## **DETAILED ACTION**

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the first gate stretching over the active region from a position where it overlaps the isolation region, said first node where said first gate is coupled to, said respective coupling of said first and second doping regions to said second and first nodes, and said first gap under said second gate, said isolation region protruding into said first doping region near the first end of the first gate, at minimum must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of

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any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The claim languages are full of grammatical errors that must be corrected in response to this action. For example, the "end" in line 4 of claim 1 must change to read as "ends", and the "region" in line 11 to "regions". This model should be followed for all independent claims besides all necessary corrections to all applicable claims.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-40,68-85,96-103 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The language in the indepenent claims whereby said first gap associated with said first doping region under said second gate is neither clear from the specification nor the drawings for proper examination on the claims.

Said thirds doping region under said first and second doping regions in contrast to said first gate as in claim 68 is not clear. A region formed under first and second doping regions where said regions are understood as source/drain regions of the structure and at the same time located "near the first end of the first gate" is not clear for proper examination.

Said "first doping region well disposed under the first doping region and near the first end of the first gate" in claim 77 also poses unclear presentation of the claimed invention. Unclear are if there is well formed at the claimed location or the term "well" is

an expression. Besides, a region or a well formed under first and second doping regions where said regions are understood as source/drain regions of the structure and at the same time located "near the first end of the first gate" is not clear for proper examination.

Claims 41-49, 86-93 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are the relationship between said isolation region, the first doping region, and said active region in contrast to said first gate.

Said isolation region protruding into the first doping region near the first end of said first gate as in claims 41,86 seems to contradict the basic structure of known field effect devices. This reasoning is based on the fact that it is not clearly known whether the isolation region isolates the first doping region from said active region or not. Absent a clear drawing that shows the claimed structure also exacerbates the confusion.

Claims 50-58 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are the relationship between said isolation region, the second doping region, and said active region in contrast to said first gate.

Said isolation region protruding into the second doping region near the first end of said first gate as in claim 50 seems to contradict the basic structure of known field effect devices. This reasoning is based on the fact that it is not clearly known whether

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the isolation region isolates the first doping region from said active region or not. Absent a clear drawing that shows the claimed structure also exacerbates the confusion.

Claims 59-67 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are the relationship between said isolation region, the first and second doping region, and said active region in contrast to said first gate.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fetsum Abraham whose telephone number is: 571-272-1911. The examiner can normally be reached on 8:00 - 18:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J Flynn can be reached on 571-272-1915.

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